

Amendments to the Claims:

1-77 (Cancelled)

78. (Currently Amended) The method of claim 95 113 wherein the ~~plant-derived~~ polynucleotide encodes HT12, BHL or ESA.

79. (Currently Amended) A ~~transformed~~ transgenic cereal plant seed produced by the method of claim 95 113.

80-89. (Cancelled)

90. (Currently Amended) The expression cassette according to claim 404 112 wherein the promoter is a gamma zein promoter or a waxy promoter.

91. (Currently Amended) A vector comprising the expression cassette of claim 404 112.

92-95. (Cancelled)

96. (Currently Amended) The method of claim 95 113 wherein the seed endosperm-preferred promoter is heterologous to the polynucleotide.

97-102. (Cancelled)

103. (Currently Amended) A food or feed product produced from the transformed cereal plant seed of claim 97 114.

104. (Cancelled)

105. (Currently Amended) The ~~expression cassette~~ transgenic cereal plant seed of claim 97 114 wherein the seed endosperm-preferred promoter is heterologous to the polynucleotide.


106-107. (Cancelled)


108. (Currently Amended) The method of claim 107 117 wherein the seed endosperm-preferred promoter is heterologous to the polynucleotide.

109-111. (Cancelled)

112. (New) An expression cassette comprising a seed endosperm-preferred promoter operably linked to a polynucleotide encoding a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid.

113. (New) A method for increasing the level of lysine and/or a sulfur-containing amino acid in a cereal plant seed, the method comprises transforming a cereal plant cell with an expression cassette and regenerating a transgenic cereal plant to produce a transgenic cereal plant seed, wherein the expression cassette comprises a seed endosperm-preferred promoter operably linked to a polynucleotide encoding a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein the level of lysine and/or a sulfur-containing amino acid is increased in the transgenic cereal plant seed compared to a corresponding non-transgenic cereal plant seed.

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114. (New) A transgenic cereal plant seed comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein the transgenic cereal plant seed comprises an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic cereal plant seed.
115. (New) A transgenic cereal plant comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein transgenic seed of the transgenic cereal plant comprise an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic cereal plant seed.
116. (New) A transgenic cereal plant cell comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein transgenic seed of the transgenic cereal plant comprise an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic cereal plant seed.

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117. (New) A method for increasing the level of lysine and/or a sulfur-containing amino acid in a maize seed, the method comprises transforming a maize cell with an expression cassette and regenerating a transgenic maize plant to produce a transgenic maize seed, wherein the expression cassette comprises a seed endosperm-preferred promoter operably linked to a polynucleotide encoding a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein the level of lysine and/or a sulfur-containing amino acid is increased in the transgenic maize seed compared to a corresponding non-transgenic maize seed.
118. (New) A transgenic maize seed comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed protein modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein the transgenic maize seed comprises an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic maize seed.
119. (New) A transgenic maize plant comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein transgenic seed of the transgenic maize plant comprise an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic maize seed.

120. (New) A transgenic maize cell comprising a polynucleotide operably linked to a seed endosperm-preferred promoter, wherein the polynucleotide encodes a native plant seed protein or a native plant seed modified to contain about 7 mole % to about 40 mole % lysine and/or about 6 mole % to about 40 mole % of a sulfur-containing amino acid and wherein transgenic seed of the transgenic maize plant comprise an elevated level of lysine and/or a sulfur-containing amino acid compared to a corresponding non-transgenic maize seed.